



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT CODE H0143
PRODUCT NAME 1,6-HEXANEDITHIOL
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FOR EMERGENCIES CALL CHEMTREC: 800-424-9300 (24-HOURS)

2. HAZARD IDENTIFICATION:

Emergency Overview

OSHA Hazards

Combustible Liquid

Other hazards which do not result in classification

Stench

GHS Label elements, including precautionary statements

Pictogram

Signal word Warning

Hazard statement(s)

H227 Combustible liquid

H303 May be harmful if swallowed

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P280 Wear protective gloves/protective clothing/eye protection/face protection

P312 Call a POISON CENTER or doctor/physician if you feel unwell

P370, P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction

P403, P235 Store in a well-ventilated place. Keep cool

P501 Dispose of contents/container to an approved waste disposal plant

HMIS Classification

Health hazard 1

Flammability 2

Physical hazards 1

NFPA Rating

Health hazard 1

Fire 2

Reactivity Hazard 0

Potential Health Effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation

Skin May be harmful if absorbed through skin. May cause skin irritation

Eyes May cause eye irritation

Ingestion May be harmful if swallowed

3. COMPOSITION AND INFORMATION ON INGREDIENTS:

SYNONYM Hexamethylene dimercaptan

Formula C₆H₁₄S₂

Molecular Weight 150.31 g/mol

CAS-No EC-No

1191-43-1 214-735-1

4. FIRST-AID GUIDE:

General advice

Move out of dangerous area

If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration

In case of skin contact

Wash off with soap and plenty of water

In case of eye contact

Flush eyes with water as a precaution

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water

5. FIRE-FIGHTING GUIDE:

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for firefighting if necessary

6. ACCIDENTAL RELEASE GUIDE:

Personal precautions

Avoid breathing vapors, mist or gas

Environmental precautions

Do not let product enter drains

Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal

7. HANDLING AND STORAGE:

Precautions for safe handling

Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage

8. EXPOSURE AND PERSONAL PROTECTION:

Contains no substances with occupational exposure limit values

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

Hand protection

For prolonged or repeated contact use protective gloves

Eye protection

Safety glasses with side-shields conforming to EN166

Hygiene measures

General industrial hygiene practice

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance

Form

Liquid

Color

Colorless to pale yellow

Safety data

pH

no data available

Melting point (°C)

-21

Boiling point (°C)

118

Flash point (°F)

Closed Cup 195

Ignition temperature

no data available

Auto ignition temperature

no data available

Lower explosion limit

no data available

Upper explosion limit

no data available

Vapor pressure (mm Hg @20 °C)

1

Density @25 °C

0.983

Water solubility

Insoluble

Partition coefficient:

n-octanol/ water

log Pow: 3.078

Relative vapor density

no data available

Odor

Fatty, meaty

Odor Threshold

no data available

Evaporation rate

no data available

10. STABILITY AND REACTIVITY:**Chemical stability**

Stable under recommended storage conditions

Conditions to avoid

No data available

Materials to avoid

Bases, Oxidizing agents, Reducing agents, Alkali metals

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sulphur oxides

11. TOXICOLOGICAL INFORMATION:**Acute toxicity****LD50** - Intraperitoneal - mouse - 100 mg/kg no data available**Skin corrosion/irritation**

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC

No components of this product present at levels greater than or equal to 0.1% is identified as probable. Possible or confirmed human carcinogen by IARC

ACGIH

No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH

NTP

No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP

OSHA

No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA

Reproductive toxicity

No data available

Teratogenicity

No data available

Specific target organ toxicity - single exposure (Globally Harmonized System)

No data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

No data available

Aspiration hazard

No data available

Potential health effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation
Ingestion	May be harmful if swallowed
Skin	May be harmful if absorbed through skin May cause skin irritation
Eyes	May cause eye irritation

Signs and Symptoms of Exposure

Nausea, Headache, Vomiting

Additional Information

RTECS: MO3500000

12. ECOLOGICAL INFORMATION:

Toxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

PBT and vPvB assessment

No data available

Other adverse effects

No data available

13. DISPOSAL RECOMMENDATIONS:

Product

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material

Contaminated packaging

Dispose of as unused product

14. TRANSPORTATION INFORMATION:

DOT (US)

UN number: 3334 Class: 9

Proper shipping name: Aviation regulated liquid, n.o.s. (Hexane-1,6-dithiol)

Marine pollutant: No

Poison Inhalation Hazard: No

IMDG

Not dangerous goods

IATA

UN number: 3334 Class: 9 Packing group: III

Proper shipping name: Aviation regulated liquid, n.o.s. (Hexane-1,6-dithiol)

15. REGULATORY INFORMATION:**OSHA Hazards**

Combustible Liquid

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313

SARA 311/312 Hazards

Fire Hazard

Massachusetts Right to Know Components

No components are subject to the Massachusetts Right to Know Act

Pennsylvania Right to Know Components

Hexane-1,6-dithiol	CAS-No
	1191-43-1

New Jersey Right to Know Components

Hexane-1,6-dithiol	CAS-No
	1191-43-1

California Prop 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm

16. OTHER INFORMATION:

The information in this MSDS was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond M&U's control, it is the responsibility of the user both to determine safe conditions for use of this product and to assume liability for loss, damage, or expense arising out of the products improper use. No warranty expressed or implied regarding the product described herein will be created by or inferred from any statement or omission in the MSDS. Various federal, state, or provincial agencies may have specific regulations concerning the transportation, handling, storage, use, or

disposal of this product which may not be reflected in the MSDS. The user should review these regulations to ensure full compliance.